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**TRANSMITTAL OF RESPONSES TO AGENCY COMMENTS ON THE REVISED
DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE SOUTH FIELD
EXTRACTION SYSTEM**

06/18/96

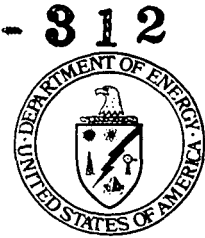
**DOE-1009-96
DOE-FN EPAS
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RESPONSES**



Department of Energy

**Ohio Field Office
Fernald Area Office**

P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155



JUN 18 1996
DOE-1009-96

Mr. James A. Saric, Remedial Project Director
U.S. Environmental Protection Agency
Region V - SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

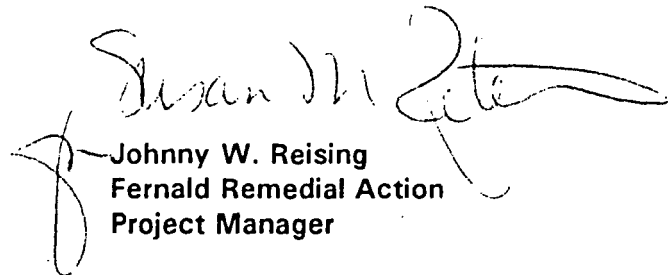
**TRANSMITTAL OF RESPONSES TO AGENCY COMMENTS ON THE REVISED DRAWINGS
AND TECHNICAL SPECIFICATIONS FOR THE SOUTH FIELD EXTRACTION SYSTEM**

Reference: Letter, T.A. Schneider (OEPA) to J.W. Reising (DOE-FN), "Conditional Approval of the Revised Drawings and Technical Specifications - South Field Extraction System," dated May 10, 1996.

This letter transmits the U.S. Department of Energy's (U.S. DOE) responses to the Ohio Environmental Protection Agency (OEPA) comments on the subject document. An Errata Sheet will be enclosed with the procurement package outlining the necessary changes while final drawings will be developed after construction is completed to reflect the "As-Built" drawings.

If you have any questions concerning this transmittal, please contact Robert Janke at (513) 648-3124, or John Kappa at (513) 648-3149.

Sincerely,


Johnny W. Reising
Fernald Remedial Action
Project Manager

FN:R.J. Janke

Enclosures: As Stated

cc w/encs:

R. L. Nace, EM-423/GTN
G. Jablonowski, USEPA-V, 5HRE-8J
J. Saric, U.S. EPA-V, SRF-5J
Manager, TPSS/DERR, OEPA-Columbus
T. Schneider, OEPA-Dayton (3 copies of encs.)
F. Bell, ATSDR
D. S. Ward, GeoTrans
R. Vandegrift, ODOH
S. McLellan, PRC
T. Hagen, FERMCO/65-2
J. Harmon, FERMCO/90
J. D. Jewett, FERMCO/52-5
AR Coordinator/78

cc w/o encs:

C. Little, FERMCO/2

RESPONSES TO OEPA COMMENTS ON THE REVISED DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE SOUTH FIELD EXTRACTION SYSTEM

Commenting Organization: OEPA

Commentor: GeoTrans, Inc. (DAG)

Section #: 13401 - 2.3 B General Pg. #: 11 of 13 Line #:

Code:c

Original Comment #1

Comment: This section should include a description of the FIC-031 flow controller. The controller features should include damping to eliminate oscillations in the control loop.

Response: Individual controllers were not used in the SFES design. All SFES control functions are accomplished through the existing AWWT Distributed Control System (DCS). Proportional-integral-derivative functions are internal to the DCS software. See Section 13401, Paragraphs 1.5.B and 2.3.B&D.

Action: No action required.

Commenting Organization: OEPA

Commentor: GeoTrans, Inc. (DAG)

Section #: 13401 - 2.3 B 2, Sheet #N0002 General Pg. #: 10 of 13 Line #: Code:c

Original Comment #2

Comment: If the pump flow (pump PMP-18) goes to zero, water from the force main will close the check valve V166. Since the pressure indicator (PIT031) is beyond the check valve, it will indicate the pressure in the force main. The low pressure alarm may not shut off the pump in this situation, endangering the pump. This may be corrected by moving the check valve beyond the pressure indicator (PIT031). This arrangement should be corrected at every pump location.

Response: When pump PMP-18 receives a zero flow signal, a pressure in the force main will be seen at PIT-031 due to remaining water between V166 and PIT-031. The purpose of the low pressure alarm is to indicate loss of line integrity between the pump and the pressure indicator under operating flow conditions. If flow is measured at FIT-031 and a low pressure alarm condition exists, the pump motor would be reduced to zero speed. The PITs only control the pumps by providing a zero speed signal when either a high or low pressure condition occurs. Should the PIT sense a low line pressure after securing the pump, this condition will not endanger the pump operation or integrity.

Action: No action required.

**RESPONSES TO OEPA COMMENTS ON THE REVISED DRAWINGS AND TECHNICAL
SPECIFICATIONS FOR THE SOUTH FIELD EXTRACTION SYSTEM (CONTINUED)**

Commenting Organization: OEPA Commentor: GeoTrans, Inc. (DAG)
Section #: 13401 - 2.3 B General Pg. #: 11 of 13 Line #: Code:c
Original Comment #3
Comment: The letter "B" is used twice in Section 2.3.
Response: Agree.
Action: Will change.

Commenting Organization: OEPA Commentor: GeoTrans, Inc.
Drawing 95X-5900-G-00221 Sheet #: G-0017 Line#: Detail 11 Code: DAG
Original Comment #4
Comment: There are no references to Detail 11 G00221 on sheets G00252, G00253,
 and G00269 as stated at the detail.
Response: Detail 15 references Detail 11 by name.
Action: Will eliminate drawing numbers on Detail 11 and will add references in Pipe
 Detail 15 above (pipes schedule).

Commenting Organization: OEPA Commentor: GeoTrans, Inc. (DAG)
Drawing 95X-5900-G-00221 Sheet #: G-0017 Line #: Detail 16 Code:c
Original Comment #5
Comment: There are no references to Detail 16 G00221 on sheets G00252, G00253,
 and G00269 as stated at the detail.
Response: Detail 15 references Detail 16 by name.
Action: Will eliminate drawing numbers on Detail 16 and will add references in Pipe
 Detail 15 above (pipes schedule).

Commenting Organization: OEPA Commentor: GeoTrans, Inc. (DAG)
Drawing 95X-5900-G-00219 Sheet #: G-0015 Line #: Detail 12 Code:c
Original Comment #6
Comment: The Tie-In Detail will require a modification of the Typical 2 Pipe Bedding
 Detail found on Sheet G0017. The required trench and pipe bedding will need
 to be deeper to accommodate the vertically staggered pipes.
Response: Agree.
Action: Will add a note to Sheet G0017 that lines vertically stagger at tie-in points.
 Field to adjust trench conditions to accommodate.

**RESPONSES TO OEPA COMMENTS ON THE REVISED DRAWINGS AND TECHNICAL
SPECIFICATIONS FOR THE SOUTH FIELD EXTRACTION SYSTEM (CONTINUED)**

Commenting Organization: OEPA Commentor: GeoTrans, Inc. (JB)
Drawing 95X-5900-G-00202 Sheet #: G-0019 Line #: Code:c
Original Comment #7
Comment: DWG G-00219 (Sheet No. G0015), Tie-in Detail 4 should have reference of
DWG G-00265 (Sheet No. G0007) noted with it. No reference is mentioned.
Response: Detail 14 is a "typical" detail that is used throughout the plans. As such,
there is no need to list reference drawing numbers.
Action: No action required.

Commenting Organization: OEPA Commentor: GeoTrans, Inc. (JB)
Drawing 95X-5900-G-00202 Pg. #: DWG G-00219 Line #: Code:c
Original Comment #8
Comment: DWG G-00219 (Sheet No. G0015), Tie-in Detail 12 should have reference of
DWG G-00265 (Sheet No. G0007) noted with it. No reference is mentioned.
Response: Detail 12 is a "typical" detail. There is no need to list reference drawing
numbers.
Action: No action required.

Commenting Organization: OEPA Commentor: GeoTrans, Inc.
Drawing 95X-5900-G-00202 Sheet : Line #: Code: JB
Original Comment #9
Comment: DWG A-00224 (Sheet No. A0001), air flow within the pump house seems
excessive in comparison to the valve house (14,800 CFM compared to 1,400
CFM).
Response: Air flow within the pump house is higher to allow dissipation of the heat load
placed on the pump houses by the extraction pump motors. The valve house
does not have this extra heat load, therefore, it can have a lower air flow
rate.
Action: No action required.

Commenting Organization: OEPA Commentor: GeoTrans, Inc. (JB)
Drawing 95X-5900-X-00202 Sheet: P-00255 Line #: Code:c
Original Comment #10

RESPONSES TO OEPA COMMENTS ON THE REVISED DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE SOUTH FIELD EXTRACTION SYSTEM (CONTINUED)

Comment: DWG P-00255 (Sheet No. G0008), post indicator valve STA 0+06 has incorrect reference number 6-G00220. The correct reference number should be 6-G00219.

Response: Agree

Action: Plan G-00251 (Sheet G002) correctly references. Will eliminate double reference on this profile.

Commenting Organization: OEPA

Commentor: GeoTrans, Inc.

Drawing 95X-5900-G-00202 Sheet: DWG G-00220

Line #:

Code:JB

Original Comment #11

Comment: Drawing G-00220 (Sheet No. G0016), the note on HDPE Flange Adapter Detail has the word "ductile" spelled incorrectly as "dutile".

Response: Agree.

Action: Will change.